

WHAT IS CLAIMED IS:

1. An aqueous carbon-containing unshaped refractory, comprising a refractory material composed of 50 to 80% by weight of refractory aggregate having a particle diameter of greater than 45 μm and 20 to 50% by weight of fine powder having a particle diameter of 45 μm or less, wherein 15 to 60% by weight of the fine powder is a carbon black material of pH 7 to 9.

2. The aqueous carbon-containing unshaped refractory according to claim 1, wherein the carbon black material contains 1.5% by weight or less of a volatile component.

3. An aqueous carbon-containing unshaped refractory, comprising 3 to 15% by weight based on the total weight of the refractory of a carbon black material having a specific surface area according to a nitrogen adsorption method of 10 to 30 m^2/g .

4. The aqueous carbon-containing unshaped refractory according to claim 3, further comprising 0.02 to 0.03% by weight of β -naphthalenesulfonic acid-formaldehyde condensate sodium salt per 1% of the carbon black material.

5. The aqueous carbon-containing unshaped refractory according to claim 3 or 4, wherein ultrafine powder having a particle diameter of 10 μm or less occupies 2 to 15% by weight of the remainder of the refractory except for the carbon black material and the β -naphthalenesulfonic acid-formaldehyde condensate sodium salt.

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6. The aqueous carbon-containing unshaped refractory according to any one of claims 1 to 5, wherein the refractory has an apparent porosity after drying of 13.0% or less.

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